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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-09/424,670	05/11/2000	Yoichi Hijikata	104824~	7939
7590	03/11/2004		EXAMINER	
Oliff & Berridge PO Box 19928 Alexandria, VA 22320			WILSON, YOLANDA L	
			ART UNIT	PAPER NUMBER
			2113	
			DATE MAILED: 03/11/2004	
			7	

Please find below and/or attached an Office communication concerning this application or proceeding.

PPG

Office Action Summary	Application No.	Applicant(s)
	09/424,670	HIJIKATA, YOICHI
	Examiner Yolanda Wilson	Art Unit 2113

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 11 May 2000.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-13 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 11 May 2000 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Objections

1. Claims 4-6 are objected to because of the following informalities: The phrase 'either one of high and low' should be 'either one of high or low'. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Swoboda (USPN 5828824A). As appears in claim 1, Swoboda discloses a central processing unit formed to be switchable between said user mode and said debugging mode, for executing instructions in each of said user mode and said debugging mode in column 9, lines 8-23.

Swoboda discloses switching means for switching said central processing unit from said user mode to said debugging mode when a forced break is input through a terminal that is not used in said user mode in column 4, lines 66-67 – column 5, lines 1-2.

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4. As per claim 2, Swoboda discloses said microcomputer has an on-chip debugging function and comprises a debugging terminal connected to a communications line for transferring debugging information that is used for on-chip debugging to and from an external debugging tool; and a forced break is input through said debugging terminal in column 9, lines 8-40 and column 4, lines 66-67 – column 5, lines 1-2.

5. As per claim 3, Swoboda discloses said microcomputer comprises a first monitor means for transferring data to and from a second monitor means determining a primitive command to be executed according to said data received from said second monitor means and executing the determined primitive command said second monitor means being provided outside said microcomputer for converting a debugging command into at least one primitive command; a single communications line for transferring said data in a half-duplex bi-directional manner is connected to said debugging terminal; said central processing unit executes a user program when in said user mode and executes said primitive command when in said debugging mode in column 8, 51-67 – column 9, line 1; column 9, lines 8-40.

Swoboda discloses said switching means switches said central processing unit from said user mode to said debugging mode when a forced break is input through said debugging terminal in column 4, lines 66-67 – column 5, lines 1-2.

6. As per claim 4, Swoboda discloses means for holding a terminal for the input of a forced break at a first level which is either one of high and (should be or) low during a state in which no external debugging tool is connected in column 7, lines 5-14.

Swoboda discloses wherein said central processing unit starts execution in said user mode when said terminal for inputting said forced break is at a time of reset or starts execution in said debugging mode when said terminal for inputting said forced break is not at said first level at a time of reset in column 20, lines 49-52.

7. As per claim 5, Swoboda discloses means for holding a terminal for the input of a forced break at a first level which is either one of high and (should be or) low during a state in which no external debugging tool is connected, wherein said central processing unit starts execution in said user mode when said terminal for inputting said forced break is at a time of reset or starts execution in said debugging mode when said terminal for inputting said forced break is not at said first level at a time of reset in column 20, lines 49-52.

8. As per claim 6, Swoboda discloses means for holding a terminal for the input of a forced break at a first level which is either one of high and (should be or) low during a state in which no external debugging tool is connected, wherein said central processing unit starts execution in said user mode when said terminal for inputting said forced break is at a time of reset or starts execution in said debugging mode when said terminal for inputting said forced break is not at said first level at a time of reset in column 20, lines 49-52.

9. As per claim 7, Swoboda discloses the microcomputer of claim 1; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer column 9, lines 8-23; column 4, lines 66-67 – column 5, lines 1-2.

10. As per claim 8, Swoboda discloses the microcomputer of claim 2; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer in column 9, lines 8-40 and column 4, lines 66-67 – column 5, lines 1-2.

11. As per claim 9, Swoboda discloses the microcomputer of claim 3; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer in column 8, 51-67 – column 9, line 1; column 9, lines 8-40; column 4, lines 66-67 – column 5, lines 1-2.

12. As per claim 10, Swoboda discloses the microcomputer of claim 4; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer in column 20, lines 49-52.

13. As per claim 11, Swoboda discloses the microcomputer of claim 5; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer in column 20, lines 49-52.

14. As per claim 12, Swoboda discloses the microcomputer of claim 6; an input source of data that is to be a processing object of said microcomputer; and an output device for outputting data that has been processing by said microcomputer in column 20, lines 49-52.

15. As per claim 13, a second monitor means for performing processing for converting a debugging command developed by a host system into at least one

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primitive command; a first monitor means for transferring data to and from said second monitor means determining a primitive command to be executed according to said data received from said second monitor means and executing the determined primitive command; a debugging terminal provided on a chip including said central processing unit and connected to a single communications line for transferring said data in a half-duplex bi-directional manner in said debugging mode in column 8, 51-67 – column 9, line 1; column 9, lines 8-40.

Swoboda discloses said switching means switches said central processing unit from said user mode to said debugging mode when a forced break is input through said debugging terminal in column 4, lines 66-67 – column 5, lines 1-2.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda Wilson whose telephone number is (703) 305-3298. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703) 305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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